Guillermo Pérez Ruiz

Tech Lead (Hands-On) / Senior Full-Stack Engineer

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Senior Engineer & Tech Lead with over 7 years of experience in platform modernization, scalable cloud architectures, and advanced automation. I act as a player-coach, bridging the gap between product strategy and engineering execution through direct implementation of high-impact changes.

▶ PROFESSIONAL EXPERIENCE

Tech Lead (Hands-On) / Senior Full-Stack Engineer   2021 – Present

MAHLE SmartBike Systems | Remote

Technical owner of the digital ecosystem and internal systems, leading a team of 4 Full-Stack engineers. Orchestrated the complete transformation of a high-traffic legacy platform used by thousands of global users.

- Technical Leadership & Strategy: Managed team workflows, led technical decision-making, and aligned product requirements with architectural scalability.
- Legacy Modernization: Transformed a monolithic React/Express application with severe technical debt (no tests, no clear architecture) into a modern, micro-service ready system.
- Cloud Infrastructure: Fully dockerized the environment and migrated all services to AWS ECS (Fargate) with auto-scaling, ALB, and secure IAM policies.
- Frontend Orchestration: Migrated web frontend to S3 + CloudFront, optimizing global delivery, reducing costs and implementing custom WAF rules.
- Advanced CI/CD & Quality: Engineered automated pipelines with branch synchronization, release blocking mechanisms, and security gates using Snyk and SonarQube.
- React Evolution: Executed a zero-downtime progressive migration from Class Components to Hooks and TypeScript, improving development velocity and type safety.
- Data Layer Decoupling: Optimized storage by separating raw location data to S3, session management to Redis, and volatile configurations to MongoDB.
- Electron & Low-Level Hardware: Built and maintain an Electron desktop app for EOL manufacturing, integrating low-level CAN bus/UDS protocols for bike diagnostics.
- Observability & Monitoring: Implemented comprehensive monitoring with Grafana dashboards, CloudWatch alarms and health-check systems.

`REACT` `NODE.JS` `AWS (ECS/S3/ALB/SECRETS)` `TYPESCRIPT` `REDIS` `DOCKER` `ELECTRON` `CAN BUS` `UDS` `GRAFANA`

QA-DevOps & Full-Stack Developer / Tech Lead   2020 – 2023

Izertis S.A. (Client: Inditex) | Remote

Core member of a cross-functional enablement team defining software quality and DevOps standards for Inditex's global landscape (thousands of repositories).

- Enterprise Automation: Developed mass-analysis scripts to audit thousands of repositories, evaluating technical health across different departments.
- Application Discovery Platform: Headed the development of 'Yellow Pages' (React/Spring Boot), a centralized platform used company-wide to discover and manage services.
- Quality Standardization: Enforced quality gates (SonarQube, Jacoco) and unit test thresholds. Managed the global migration from Bamboo to GitHub Actions.
- Distributed Systems: Integrated real-time data synchronization using Kafka and implemented dedicated search engines for high-performance service discovery.
- Technical Auditing & Mentoring: Conducted periodic audits to ensure compliance with quality standards and provided training on testing and pipeline configuration.

REACT | SPRING BOOT | KAFKA | GITHUB ACTIONS | GRAFANA | GO | SONARQUBE | SNYK | JACOCO

Full-Stack Programmer Analyst   2018 – 2020

Cognizant Technology Solutions | International / Valladolid

Full-stack development for KBC Bank (Belgium) in a high-demand microservices environment, working in 100% English-speaking international squads.

- Digital Banking Evolution: Developed and modernized banking flows, migrating legacy AngularJS components to modern Angular 4+.
- Microservices Architecture: Designed and implemented high-criticality financial microservices from scratch using Spring Boot and Scala.
- Engineering Excellence: Acted as a technical reference within the squad, conducting rigorous code reviews and implementing SonarQube standards.
- Agile Delivery: Operated within complex Scrum/SAFe frameworks, delivering high-integrity transactional features to thousands of bank customers.
- International Operations: Collaborated daily with distributed teams in Belgium, India, and the Czech Republic in a highly disciplined environment.

ANGULAR | SPRING BOOT | MICROSERVICES | JENKINS | SCRUM | SCALA | AWS | SONARQUBE

▶ SKILLS & EXPERTISE

⚡ Leadership & Architecture

Tech Leadership • Player-Coach Model • Legacy Modernization • System Design • Agile (SAFe/Scrum) • Technical Mentoring

⚡ Frontend & Apps

React (Hooks, Context) • TypeScript • Next.js • Electron • Tailwind CSS • Angular • Responsive Design

⚡ Backend & Systems

Node.js (Express/NestJS) • Java (Spring Boot) • Go • Scala • Kafka • RESTful APIs • Microservices

⚡ DevOps & Cloud

AWS (ECS, S3, CloudFront, Secrets) • Docker • CI/CD (GitHub Actions, Jenkins) • IaC (Terraform) • Monitoring (Grafana, CloudWatch)

⚡ Data & Security

PostgreSQL • MongoDB • Redis • NoSQL • Snyk / SonarQube • Data Decoupling

⚡ AI & Innovation

AI Agent Integration • Generative AI APIs • Prompt Engineering • Model Fallback Strategies • AI-Driven Automation